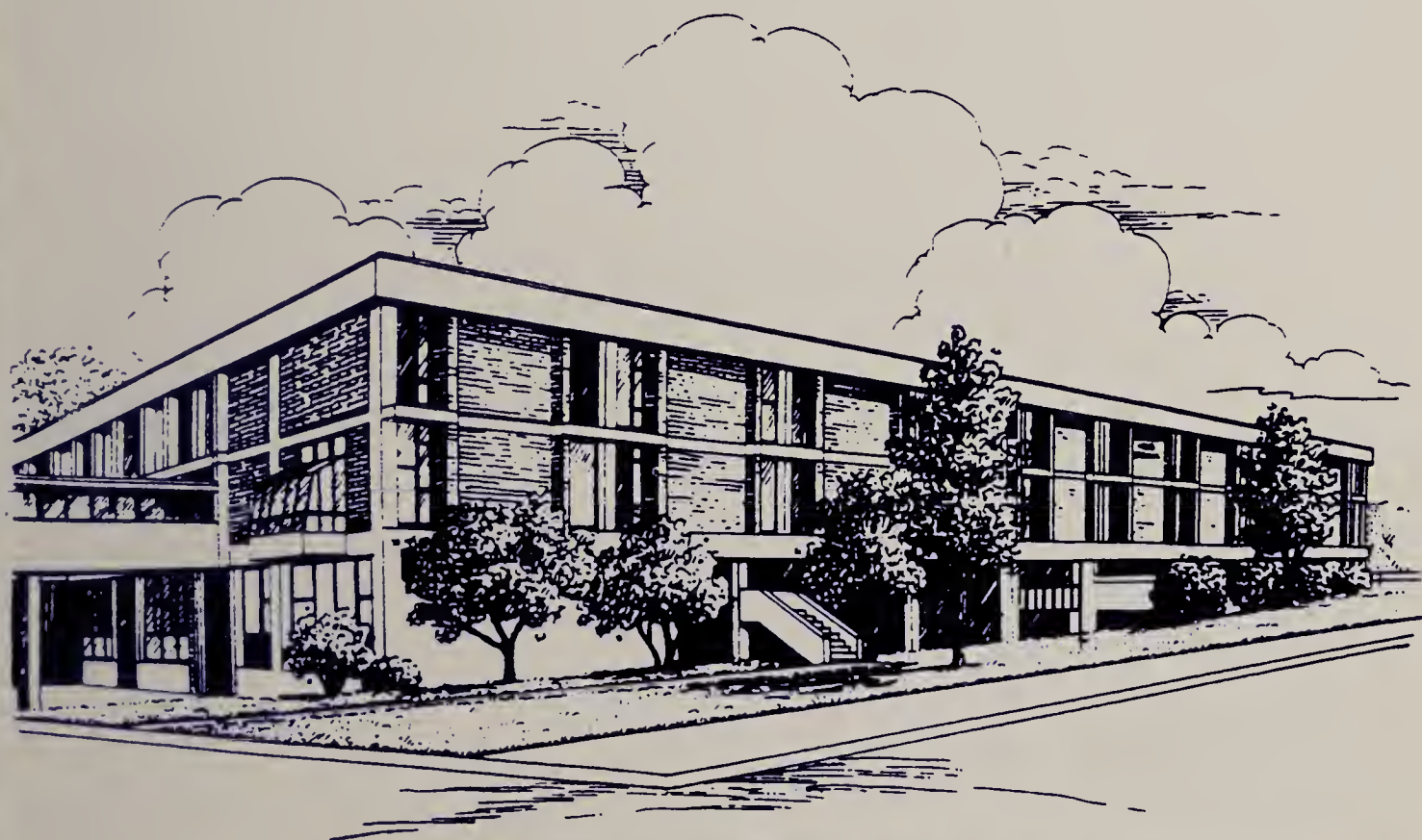


ANDOVER FILE

- Schools

Andover High School

Andover, Massachusetts



1995 - 1996
Course Catalogue

FOR REFERENCE

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Andover High School

Administration

Richard Neal Acting Superintendent of Schools
Denise Littlefield Acting Assistant Superintendent
Timothy Thomas Principal
Ellen A. Parker Assistant Principal
Stephen C. Richardson Assistant Principal

Counseling Department

Ruby Easton Department Chair
Peggy Cain Counselor
Tim Walker Counselor
Michael Marcoux Counselor
Wendy Palmer Counselor
Marise Stewart Counselor
Winston Ryan Counselor
Caralie Ford Counselor

Andover High School 470-1700

Attendance 470-2273

Andover High School

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Andover High School

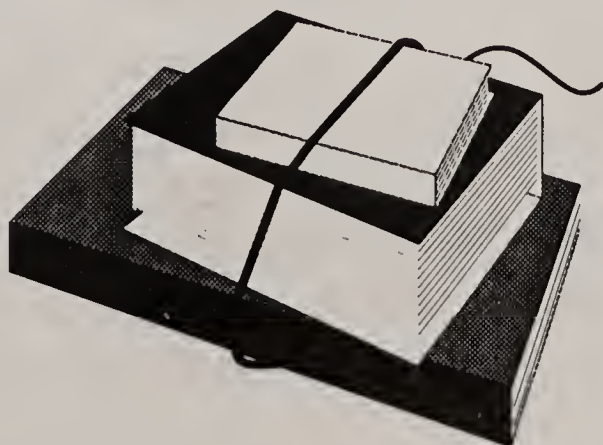
Philosophy

Learning is an ongoing process that is enhanced and supported by a variety of influences including the family and the community. Education is an integral part of the learning process. A successful educational experience should encourage the development of life-long intellectual, social, and physical skills that will enable its recipient to prosper and thrive both now and in the world of tomorrow.

It is the philosophy of Andover High School that each individual be accepted as a human being of dignity and worth. Each student should receive encouragement to think of himself/herself as a unique individual whose personal goals will make a contribution to the common good. Since every student is unique, the school must provide a wide variety of learning experiences.

By offering a multifaceted approach to learning, the students will be presented with a means of achieving their personal best. The variety and scope of offerings and activities should establish an environment that will enable students to grow both academically and socially, and to pursue and to develop their individual talents and interests. A positive educational environment should enhance the students' decision-making skills as well as encourage them to recognize and to assume an active role in their education, school, and community at large.

The ultimate goal of Andover High School is to develop citizens who bring to the future a sense of self-worth, a background of strong academic knowledge, and an attitude of social responsibility for the betterment of society.



Andover High School

Goals

- To offer a sound academic program which encourages a positive desire toward lifelong learning and self-awareness.
- To develop in each student the basic skills of conceptualization, reading, writing, listening, oral expression, computation, computer awareness, artistic expression, and scientific inquiry.
- To be concerned with each individual's intellectual, physical, emotional, and moral well-being.
- To encourage all students to learn at levels appropriate to their abilities through a mixture of regular, team-taught, and special needs programs and courses, using traditional methods of instruction as well as alternatives such as coaching and seminars.
- To create a positive school environment which encourages effort, achievement, leadership, and social responsibility.
- To create a general awareness of cultural and racial diversity and similarities in the United States and around the world.
- To foster students' social development and appreciation of their high school years as a positive and productive part of their lives through extracurricular activities such as clubs, sports, student organizations, fine arts demonstrations, and community service.
- To afford opportunities for staff, students, parents, and community to participate in appropriate areas of the educational process.
- To provide educational opportunities for the development and understanding of physical wellness and healthful living.
- To provide opportunities for students to research post-secondary options through curricula and counseling services.
- To provide the staff with opportunities to continue their professional growth and development.

Andover High School

Course Catalogue

The Course Catalogue contains information necessary to select courses for the academic school year 1995-1996. The requirements for graduation are itemized on page 7. It is important for students and parents to be aware of their responsibilities in course selection.

Responsibilities of Students and Parents

- 1) To be aware of all graduation requirements and to have a plan for meeting those requirements.
- 2) To review the established plan each year and check for graduation requirements completed.
- 3) To utilize the student's time spent at Andover High most effectively by choosing courses which are relevant to his/her academic and career interests while challenging his/her abilities.
- 4) To work with the counseling department in arranging summer school course load (when applicable).

Credit Information

Every student is required to carry the equivalent of 5 classes every day for each semester. In addition students must fulfill the physical education requirement.

No more than 2 credits may be offered for work done in summer school or in any other outside courses approved by the principal.

No credit is given for a course previously passed, but repeated to improve proficiency; such a course may not be used in determining eligibility for interscholastic athletics.

Promotion Requirements

Grade 9 to 10	Students must pass 3 credits
Grade 10 to 11	Students must have passed 8 credits
Grade 11 to 12	Students must have passed 14 credits

Requirements for Entrance to Four-Year Colleges

Requirements for high school preparation vary widely between colleges and universities. More than 80% of the students at Andover High School attend four-year colleges after graduation. We have outlined a minimum program for entrance to competitive colleges to consider in making course selections.

Andover High School

Minimum Program for College Entrance

- 2 years Laboratory Science
- 3 years Social Studies
- 4 years English
- 2 years Foreign Language
- 4 years Math

Electives indicative of exploration of business, arts or practical arts.

Ideal Program for Entrance to Selective Colleges

- 4 years Science
- 4 years Math
- 4 years English
- 4 years Social Studies
- 3-5 years Foreign Language

Electives indicative of in-depth pursuits and/or exploration of business, arts, practical arts and informational science.

Chapter 622:

In compliance with Chapter 622 and Title IX, the Andover Public Schools follow the law which reads:

No person shall be excluded from or discriminated against in admission to a public school of any town or in obtaining the advantages, privileges, and courses of study of such public school on account of race, color, sex religion, or national origin of such child.

Credit Values of Courses

Each full-year course for which the class meets the equivalent of at least five periods per week earns one credit if passed; each semester (half year) course earns .5 credit, and each term (quarter year) course earns .25 credit. Other courses which meet less than five periods per week allow a student to earn that credit which is indicated in the course description.

Requirements for Graduation

Diploma Requirements

English	4 credits
Social Studies	3 credits
Mathematics	2 credits
Science	2 credits
Physical Education..... (Must be taken each year)	1.75 credits
Practical Arts75 credits
Fine Arts	1 credits
Health Education75 credits
Electives (may include Foreign Language)	4.75 credits
A minimum of.....	20 credits

Levels

Level 7 AP - These Advanced Placement courses provide students with the opportunity to pursue college level studies while still in high school. Department prerequisites for each course must be fulfilled. All students are required to take the College Board A.P. Exam at the completion of the course. Students are responsible for paying the standard test fee. Students who do not take the exam will not be granted credit for the course.

Level 1 - A student selecting level 1 assumes responsibility for independent study and intensive research. Students must have the recommendation of a member of the educational staff.

Level 2 - Students are expected to do research papers, supplementary readings and be involved in the development of critical thinking skills.

Level 3 - This level involves considerable structure and directed teacher instruction. Oral discussions and writing assignments are an integral part of this level.

Unleveled Courses - Many courses in Practical and Fine Arts are unleveled enrichment electives. Courses are teacher instruction directed and involve limited homework.

English

Grade 9	Grade 10	Grade 11/12 (Electives) <i>Full Year Courses</i>	Grade 11/12 (Electives) <i>Half Year Electives (.5cr.)</i>
English 9 (L1,2,3)	English 10 (L1,2,3) or American Studies (L1,2)	20th Century Lit. (L1,2,3) Humanities (L1,2) English Literature (L1,2) Dominant Ideas (L1) Journalism (L1) AP English (L7) - Seniors Only	Journalism (L2,3) Improving Your Writing (L2,3) Short Stories (L2,L3) Business English (L2,3) Public Speaking (Unleveled)

Criteria For Placement Into Grade 9 Level 1 and Level 3

Level 1 - students should average A in English Grade 8

Level 3 - students averaging below C in English Grade 8

1001	English 9	(Freshmen)	Level 1	1 Credit
1002	English 9	(Freshmen)	Level 2	1 Credit
1003	English 9	(Freshmen)	Level 3	1 Credit

English 9 teaches **World Literature** in a thematic way, including short stories (mythology and legends), poetry, a Shakespearean play, non-fiction essays, and *Night* (the Holocaust). **Writing** is regularly assigned in order to develop skills such as organization, process (peer editing), analysis & criticism, research papers, etc. **Grammar Skills** are taught throughout the school year, and **Vocabulary workbooks** complement the vocabulary derived from the literature. **Oral Skills** are taught through large and small group discussions and class presentations.

Recommendations for grades 10, 11, 12:

Level 1 - students should maintain a "B" or better to continue in Level 1.

Level 2 - students with "A" grades may be recommended for Level 1. Students with "C" grades or below will be recommended for Level 3.

Level 3 - students with "A" grades may be recommended for Level 2.

Sophomores Take Either English 10 (or) American Studies:

1011	English 10	(Sophomore)	Level 1	1 Credit
1012	English 10	(Sophomore)	Level 2	1 Credit
1013	English 10	(Sophomore)	Level 3	1 Credit

Sophomore English involves American Literature of the Colonial period through early 1900's, writing of essays and term papers, oral communications, advanced grammar skills, and creative projects like newspapers of different time periods.

4001	American Studies	Level 1	2 Credits-1 Eng. / 1 Soc. Stud.
4002	American Studies	Level 2	2 Credits-1 Eng. / 1 Soc. Stud.

American Studies is an interdisciplinary approach to teaching American culture, which involves the history, literature, art, music, morals and attitudes of our society. American Studies features **team-teaching** with English and Social Studies teachers **jointly planning and teaching the program**. This course will satisfy **both** the Modern American History **and** the Sophomore English graduation requirement. L1 and L2 are combined in the same class with different requirements and expectations clearly stated at the beginning of the school year.

Grades 11 and 12 - Junior/Senior Electives:

1141	Twentieth Century Literature*	Level 1	1 Credit
1142	Twentieth Century Literature *	Level 2	1 Credit

*It is recommended that students take 20th Century Literature during the same year they take 20th Century History.

This course will incorporate the works of excellent authors such as Faulkner, Hemingway, Malmud, Steinbeck, Miller, etc., as well as other world-renowned writers. In addition to the novels, the course covers plays, short stories, poems, and essays. Writing, such as research papers and critical analysis, is an integral part of the course. Students shall be expected to participate in class discussions on a daily basis.

Level 1 students will read more advanced and outside-reading material. They will also be required to write more-involved critical papers.

1143	Twentieth Century Literature	Level 3	1 Credit
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This elective will include a variety of shorter pieces of contemporary literature; in addition, short stories, magazine articles, and some free choices of modern novels will be included. Oral discussion, writing assignments, and audio-visual presentations will be part of the evaluation process.

1441	20th Century English & History	Level 1	1 Eng./1 S.S.
1442	20th Century English & History	Level 2	1 Eng./1 S.S.

This course is a **team-taught**, Junior level follow-up to the American Studies program, stressing the **interdisciplinary approach** to American culture, literature, modern history, art, music and attitudes. Instruction includes lectures, large and small group discussions, creative projects, etc. (counts as: 1 credit in English and 1 credit in 20th Century History). English and Social Studies teachers will jointly plan and teach this class.

1151	Humanities	Level 1	1 Eng./1 Art
1152	Humanities	Level 2	1 Eng./1 Art

What does it mean to be "human"? Humanities is a team-taught English course which is taught thematically (that is, by interrelated units which cut across historical periods) focusing on the primary concept: "The nature of mankind". Readings include Greek mythology and drama, Medieval pieces, Shakespeare, twentieth century short stories and two novels (The Once and Future King and Childhood's End). Works of art will be studied according to theme and period, and studio art projects will relate to technique and style. In addition, visits to the Museum of Fine Arts and the Fogg and Sackler museums are incorporated into the curriculum. The development of writing skills and independent, creative and logical thinking are emphasized.

1161 Masterpieces of English Literature Level 1 1 Credit

1162 Masterpieces of English Literature Level 2 1 Credit

Literature is presented thematically in two broad units: literature of the hero and literature by and about women. Literature of the hero explores the nature and evolution of the hero through history, legend, and myth. Literature includes, but is not limited to, Beowulf, Shakespeare's Henry V, and selections from Tolkien's The Lord of the Rings. Literature by and about women examines portraits of women and society's expectations of them from the Middle Ages to the 20th Century. Literature includes selections from Chaucer's Canterbury Tales, Shakespeare's The Taming of the Shrew, Austen's Pride and Prejudice, Bronte's Jane Eyre, and Hardy's Tess of the D'Urbervilles among others. At the end of the year, the themes are combined in an examination of Macbeth and Much Ado About Nothing.

Level I students will select an additional book from a list and write an additional analytical paper each month. LI is particularly recommended for those students wishing to take the Advanced Placement examination in Literature and Composition.

1191 Dominant Ideas Level 1 1 Credit

Dominant Ideas is a course which exposes students to major concepts in art, literature, Western and Eastern religions, ethical values, cybernetics, racism, sexism, theories of modern philosophy, painting, music and theater. Class requirements will include readings from The Bible, Joseph Campbell, Herman Hesse, Samuel Beckett, Chiam Potok, Claude Brown and others. A high degree of scholarship will be required, as writing assignments involve research, expository skills, process writing, and critical analysis.

1211 Journalism Only Level 1 is Full Year 1 Credit

In addition to teaching advanced journalism writing skills, this course will also involve **reading** full-length fiction and non-fiction books related to journalism and discussing issues contained within them. L1 will produce the school newspaper, The Rock. Additional articles will be submitted by Level 2 Journalism, but **Level 1 students must produce the newspaper**, filling the roles of the editorial and production staff. Students will read assignments as preparation for articles, and then write, edit, do layouts, then produce and distribute the paper. **Some after-school time will be necessary to meet production deadlines.**

1307 Adv. Placement English (Seniors Only) Level 7 1 Credit

Advanced Placement is the equivalent of a college freshman English course taught at the high school level. Students will investigate a number of themes encompassing the "search for identity", the Victorian novel, and investigating the process of modern critical thought. Authors include Woolf, T.S. Eliot, Conrad, Dickens, Yeats, Elizabeth Bishop, Camus, Shakespeare, and others. Class requirements will include extensive reading, writing analytical and critical papers, tests, class discussion, and oral presentations, leading toward the A.P. English Exam in the Spring.

All students are required to take the College Board A.P. Exam at the completion of the course. Students are responsible for paying the standard test fee. Students who do not take the exam will not be granted credit for the course. Each student must have the recommendation of his/her previous teacher and a minimum grade of A-.

Half Year English Electives:

1212	Journalism	Half-Year	Level 2	.5 Credit
1213	Journalism	Half-Year	Level 3	.5 Credit
This course will emphasize improvement of student's writing through reading assignments, discussion of ideas, and practicing the techniques of good Journalism, including organization, focus, proofreading, and copy-editing skills. Students will do practical reporting assignments in the community and publish their articles in the student newspaper, <u>The Rock</u> . Note: Students are encouraged to take the New Desktop Publishing (#8060) course in conjunction with Journalism.				
1232	Short Story	Half-Year	Level 2	.5 Credit
1233	Short Story	Half-Year	Level 3	.5 Credit
Students shall pursue an in-depth study of major short story writers, investigate their biographical backgrounds and evaluate their styles and characteristic themes. Writing assignments include personal essays and learning how to write a literary analysis.				
1242	Writing	Half-Year	Level 2	.5 Credit
1243	Writing	Half-Year	Level 3	.5 Credit
Students will improve their writing techniques (description, comparison/contrast, cause/effect, etc.) writing about controversial topics of the modern world. After reading and analyzing fictional works, students will also learn to develop their creative writing talents, writing stories, poems, and one-act plays. This course is taught in a regular classroom and in the Macintosh computer lab.				
1250	Public Speaking	Half-Year	Unleveled	.5 Credit
Students will develop improved speaking skills (organization of speeches, better use of voice and gestures, and improvement in vocabulary). Types of speeches include: prepared talks, impromptu (on-the-spot), group presentations, demonstrations, etc. Interpersonal communications will be stressed as useful in all aspects of life.				
1262	Business English	Half-Year	Level 2	.5 Credit
1263	Business English	Half-Year	Level 3	.5 Credit
This course is intended for Juniors and Seniors who intend to find a job after high school or who wish to work in a professional position while attending college. The course will cover how to obtain a position (letters of application, resumes, etc.) write business letters, and improve computer and word processing skills; students will also interact with adults in the business community through guest speakers and outside-of-school assignments. The class will utilize computer lab for word processing.				

Social Studies

Grade 9	Grade 10	Grade 11	Grade 12
(Required) World Civilization	(Required) American Studies or U.S. History	(Required) 20th Century History or A.P. Modern European History	(Electives) Odyssey A.P. U.S. History Model U.N. / Great Decisions Psychology 1 Semester Sociology 1 Semester
<i>Students who fail required courses must repeat the course the following year.</i>			
<i>All required courses must be passed to graduate.</i>			

Criteria For Placement Into Level 1 and Level 3 Grade 9

Level 1 - students should be averaging A in Soc. Studies grade 8

Level 3 - students includes anyone averaging below C in Soc. Studies grade 8

4901	Grade 9	World Civilization	Level 1	1 Credit
4902	Grade 9	World Civilization	Level 2	1 Credit
4903	Grade 9	World Civilization	Level 3	1 Credit

The 9th Grade Social Studies program will focus, during the first three terms, upon a study of World Civilization from the early cradles of civilization through the 19th Century. This course will deal with non-Western as well as Western societies. When 9th graders reach their Junior year, they will be involved in a 20th Century history course that will combine American and World History in that period. During the fourth term of the 9th Grade course, students will participate in a case study of 20th Century Genocide “Facing History and Ourselves”. Students are stimulated to think and reason about implications for a society that abuses human rights. Facing History encourages students to develop their own concept of justice and their reasoning skills for decision-making.

Recommendations for grades 10, 11, 12:

Level 1 - students should maintain a “C+” or better to continue in Level 1.

Level 2 - students with “A” grades may be recommended for Level 1. Students with C- grade or below caused by academic difficulty may be recommended for level 3.

Level 3 - Level 3 student with A grades may be recommended for Level 2.

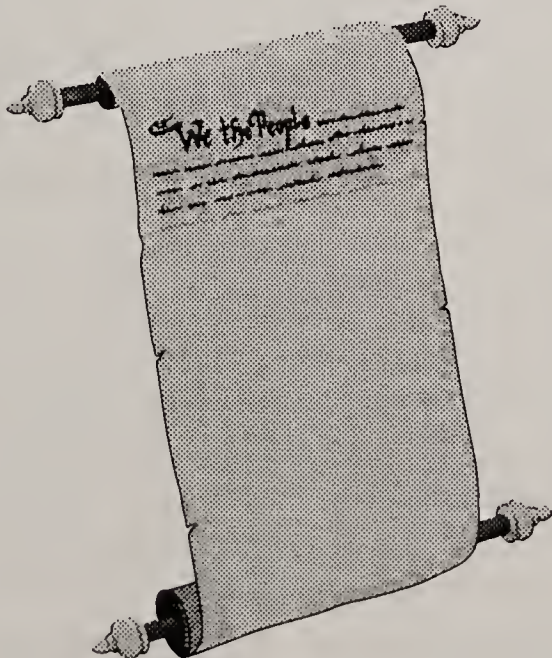
4001	Grade 10	American Studies	Level 1	1 Eng / 1 Soc Stud
4002	Grade 10	American Studies	Level 2	1 Eng / 1 Soc Stud

American Studies is an interdisciplinary approach to teaching American culture, which involves our history, from its early native American and European Colonization roots to 1914, including our literature, art, music, morals and attitudes. Students will be required to write a research term paper, will be exposed to supplementary readings and will be involved in the development of critical thinking skills. This course will satisfy both the Sophomore American History, Sophomore English and the American Literature graduation requirements. Classes are scheduled for two consecutive periods each day; successful completion equals 2.0 credits. L1 & L2 are combined in the same class.

4101	Grade 10	U.S. History	Level 1	1 Credit
4102	Grade 10	U.S. History	Level 2	1 Credit
4103	Grade 10	U.S. History	Level 3	1 Credit

This course is a survey of American History from its early native American and European Colonization roots to 1914, the end of the Progressive Era and the eve of World War I. The course emphasizes the relationships of the social, cultural, economic and political developments of America’s past with special attention given to their relationship with modern problems. The course also includes an in-depth study of the U.S. Constitution. Level 1 and 2 students will be required to write a research term paper, will be exposed to supplementary readings and will be involved in the development of critical thinking skills.

Level 3 students who have demonstrated some difficulty in mastering social studies skills, will receive greater teacher direction and assistance. Materials have been selected to help these students to develop the basic social studies skills necessary for informed citizen responsibility.



4117 Advanced Placement U.S. History Level 7 (AP) 1 Credit

This course is an intensive in-depth study of American History, basically a seminar and research oriented class that concentrates on selected topics and key issues. The course is for gifted college preparatory students with a special aptitude and interest in history. The class will have a limited enrollment; admission to the course will be based upon past academic performance in Social Studies and teacher recommendations. Students will be prepared for and required to take the Advanced Placement CEEB Examination in American History in May. This is a college course for college credit based upon successful achievement in the Advanced Placement exam.

All students are required to take the College Board A.P. Exam at the completion of the course. Students are responsible for paying the standard test fee. Students who do not take the exam will not be granted credit for the course.

4201 Grade 11 20th Century History Level 1 1 Credit

4202 Grade 11 20th Century History Level 2 1 Credit

4203 Grade 11 20th Century History Level 3 1 Credit

The 20th Century History Course will combine the study of 20th Century U.S. History with the study of World History, both western and non-western, during that same period. The course begins with World War I and its background and covers the historical developments of the present century both from a American and a global perspective. The course will emphasize student involvement and critical thinking, supported by a solid knowledge base of the events & issues of this century. All students in Levels 1 and 2 will be required to present an in-depth research project involving a topic appropriate to this subject area. Current plans call for maximum possible coordination of this course with the study of 20th Century literature in 11th Grade English.

1441 20th Century English & History Level 1 1 Eng./1 S.S.

1442 20th Century English & History Level 2 1 Eng./1 S.S.

This course is a team-taught, Junior level follow-up to the American Studies program stressing the interdisciplinary approach to American culture, literature, modern history, art, music & attitudes. Instruction includes lectures, large & small group discussions, creative projects, etc. (1 credit in English & 1 credit in U.S. History). English & Social Studies teachers will jointly plan & teach this class.

4171 Odyssey Level 1 1 Credit Soc Stud & 1 Credit Fine Arts

4172 Odyssey Level 2 1 Credit Soc Stud & 1 Credit Fine Arts

Odyssey is an interdisciplinary elective course, which examines the integral relationship of literature, philosophy, history and fine art in four world cultures; Spain, South Africa, China and Russia. The course stresses student responsibility and empowerment, with an emphasis on tolerance of multiple points of view and questioning. Skill expectations include: analytical and critical thinking, group interactive strategies, writing as a process, research techniques and communication skills. Art projects are designed for the non-artist to encourage appreciation for and understanding of the creative process. Any student choosing to take Odyssey as a **junior** must, as a senior, take the 11th grade req. (20th Century History or AP Modern European History.) In such cases AP U.S. History may also be chosen as a senior elective.

4217	AP Modern European History	Level 7 (AP)	1 Credit
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This survey of European history (1400 to the present) includes major topical studies of the Renaissance and Reformation; parallel development of absolutist institutions with the intellectual and industrial revolution; 18th and 19th Century nationalism and imperialism, rise and fall of 20th Century European predominance in world affairs. This course provides in-depth learning using significant primary sources to write analytical essays in preparation for the Advanced Placement CEEB Examination. This course will satisfy the 11th grade requirement and only Juniors and Seniors will be allowed to take this college course for college credit based upon successful achievement in the Advanced Placement Exam. Summer reading is required.

All students are required to take the College Board A.P. Exam at the completion of the course. Students are responsible for paying the standard test fee. Students who do not take the exam will not be granted credit for the course.

4301	Model U.N. & International Issues	Level 1	1 Credit
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4302	Model U.N. & International Issues	Level 2	1 Credit
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This course is a survey of the organization structure and function of the United Nations, with emphasis upon the relationship of countries in the World. It will cover the development of foreign relations of the United States, through an in-depth study of such events as the Cuban Missile Crisis and the Vietnam War, as well as an analysis of current political crises in the World. The class will include debates, active discussions and the participation in mock Model United Nations.

4321	Psychology and Mental Health	Level 1	.5 Credit
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4322	Psychology and Mental Health	Level 2	.5 Credit
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Psychology and mental health will provide students with an introduction to the principles of psychology. Through readings and class discussion, basic and current ideas in the following areas will be stressed: social psychology, basic emotional needs, symptoms of emotional maladjustment, suicide, personal growth theories, and sources of therapy. Background in the theories of the major schools of contemporary psychology will be covered. The Level 1 student will be required to read a greater amount of supplementary material, participate in independent study, and produce a research project as part of the course requirements.

4331	World Cultures & Social Systems	Level 1	.5 Credit
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4332	World Cultures & Social Systems	Level 2	.5 Credit
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This course will explore the influences that geography, history and the economy have had upon cultural development and analysis of different cultures. Also, Social class, race and gender relations, as well as an investigation of the structure and function of groups will be investigated.

Students will be required to critically read sophisticated materials and to present analysis and evaluations in both the written and oral format. The course is structured so that requirements will be different depending upon levels.

English as a Second Language

ESL Credit:

- 1.) That one credit be awarded for daily ESL instruction.
- 2.) If a student receives services for one period every day for a full semester = .5 English Credit.
- 3.) Anyone receiving regularly scheduled service of a lesser amount will receive proportional credit. (This is in line with credits received for L.D. Tutoring)
- 4.) A student could receive a maximum two ESL credits in English.

9000	Beginner ESL	Unleveled	1 Credit (Full Year)
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Non-English speaking students (or) students who are new to the English language will be placed in this class, which will include students of all grades (9-12).

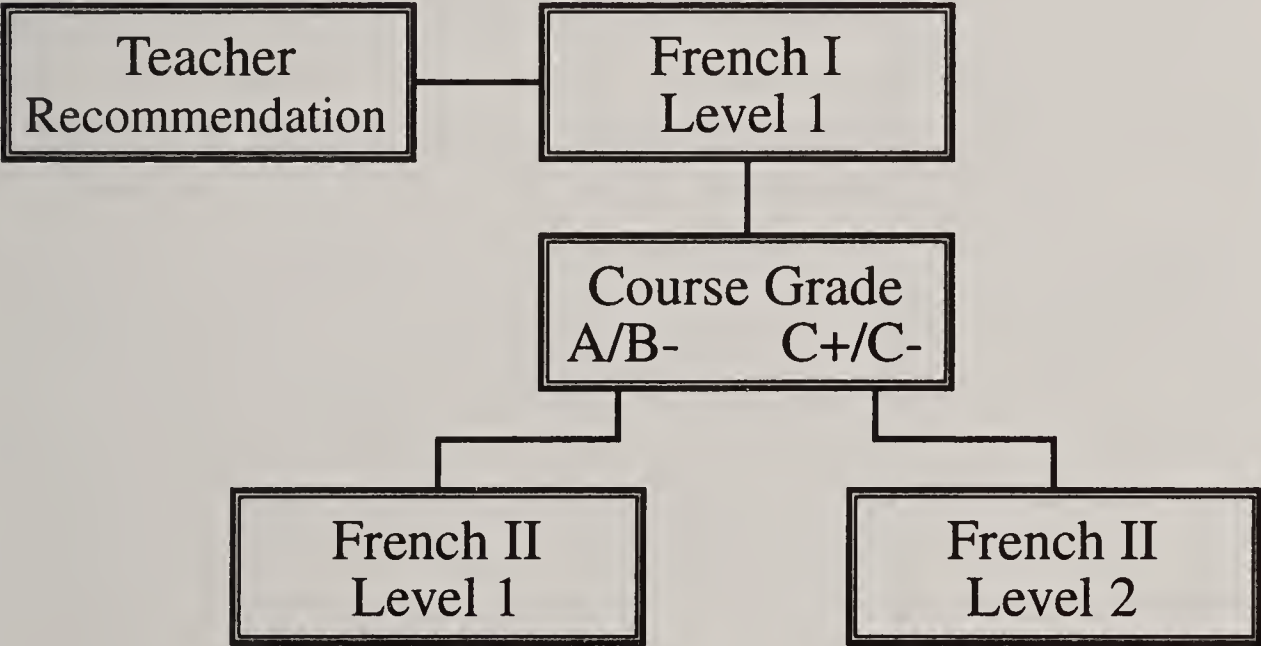
9010	Intermediate ESL	Unleveled	.5 Credit (Semester)
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Intermediate ESL is available for limited English proficient students who require assistance in English or Social Studies with reading comprehension, writing skills, and organization.

Foreign Language

Sequence:

There are no course prerequisites for entrance into a beginning course. Students are enrolled on the basis of recommendation from teachers and counselors. Appropriate levels in sequential courses are determined by course grade and teacher recommendation. Students who receive a grade of D in Level 2 will receive credit for the year, but may not continue to the next sequential course. A student in this circumstance may repeat the course to improve the grade and background, but will not receive credit for this repeated course.



5011 French I Level 1 1 Credit

This is an introductory course designed to develop proficiency in listening, speaking, reading, and writing. Material includes study of basic vocabulary, grammar, and current idiomatic expressions as well as culture of the Francophone countries.

5012 French I Level 2 1 Credit

This is an introductory course enabling the student to attain a measurable proficiency in listening, speaking, reading, and writing. Skills are developed through short narratives, oral and written questions, and role-playing.

5021 French II Level 1 1 Credit

A second-year course which combines the study of complex grammatical structures with exclusive use of the target language. Speaking proficiency is promoted through student oral presentations. Use of the language laboratory is expanded to improve listening comprehension skills. Cultural topics are discussed and studied. Prerequisite: French I or completion of 7th & 8th Grade program.

5022	French II	Level 2	1 Credit	A second-year course designed to reinforce and further develop oral competency through active student participation. Grammatical structures are more complex. Reading and writing are gradually expanded in length and depth as the year progresses. Cultural readings are incorporated into each chapter. Prerequisite: French I or completion of 7th & 8th Grade program.
5031	French III	Level 1	1 Credit	This is an intensive course intended to provide a mastery of grammar and a high level of proficiency in speaking. Projects and oral presentations are assigned regularly to develop fluency. Vocabulary building is intense. Materials are designed to develop a deeper understanding of the culture, civilization, and geography not only of France, but of the entire French-speaking world. Class discussions in the target language include topics from history, culture, and literature. Writing skills are developed through paragraphs and later compositions. Prerequisite: French II
5032	French III	Level 2	1 Credit	An intermediate course intended to enrich skills and provide for specific refinement of conversational ability. Expanded vocabulary useful in day-to-day experience. Oral self-expression is practiced through dialogs and class discussions. Culture is studied through reading selections and a variety of media. Writing progresses from paragraphs to short compositions. Prerequisite: French II
5041	French IV	Level 1	1 Credit	This is an intensive course conducted entirely in French. Content includes topics from French history, literature, and culture. An intensive review of grammar and frequent composition assignments continue to develop writing proficiency. Prerequisite: French III
5042	French IV	Level 2	1 Credit	This course is designed to enrich and enhance the student's writing, reading, and oral skills through an intensive vocabulary and grammar study and practice. Emphasis is given to contemporary French society and culture. Prerequisite: French III
5051	French V	Level 1	1 Credit	
5052	French V	Level 2	1 Credit	This course is open to students of high linguistic ability and achievement. Selections of French literature will be studied and discussed and related to the present. The course is designed to foster oral/aural proficiency as well as written expression. Current audio/visual materials, newspapers, magazines, and speakers serve to encourage a deeper understanding of the French people and their culture. Prerequisite: French IV

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|--|--------------------|----------------|-----------------|
| 5111 | Spanish I | Level 1 | 1 Credit |
| <p>This course, although introductory, is intensive in nature. Vocabulary, conversational patterns, and dialogues deal with a wide variety of “real life” situations and cultural topics. Listening and speaking skills are stressed. Writing competency demands the development of paragraphs in the target language. Reading is developed gradually through short selections incorporated into each lesson.</p> | | | |
| 5112 | Spanish I | Level 2 | 1 Credit |
| <p>This course provides an introduction to Spanish through the four language skills - listening, speaking, reading and writing. Emphasis is placed on the development of conversational skills through situations and language. Current cultural readings and basic geography are also included.</p> | | | |
| 5121 | Spanish II | Level 1 | 1 Credit |
| <p>A second-year course, intensive in nature, which combines the study of complex grammatical structures and exclusive use of the target language. Speaking skills are promoted through oral presentations and dialogues. Audio and video materials are used to develop competency. Additional reading assignments and cultural topics complete the scope of this course. Prerequisite: Spanish I or completion of 7th & 8th Grade program.</p> | | | |
| 5122 | Spanish II | Level 2 | 1 Credit |
| <p>A second-year course designed to reinforce and further develop oral competency through active student participation. Grammatical structures are more complex. Reading and writing are gradually expanded in length and depth as the year progresses. Readings dealing with Hispanic culture are incorporated into each unit. Films, slides and the use of the language laboratory enrich these discussions. Prerequisite: Spanish I or completion of 7th & 8th Grade program.</p> | | | |
| 5131 | Spanish III | Level 1 | 1 Credit |
| <p>This is an intensive course including a study of Spanish grammar, culture, and literature. Use of the target language is required to make oral presentations through use of tapes, short skits and then videos dealing with everyday situations. Cultural readings enhance the appreciation of the diversity found in the Spanish speaking world and their contributions to our historical development and our contemporary culture. Prerequisite: Spanish II</p> | | | |
| 5132 | Spanish III | Level 2 | 1 Credit |
| <p>An intermediate course intended to continue development in communication. The content provides for a comprehensive review of all major grammar structures as well as the study of some not previously introduced. There is intense vocabulary building as well as cultural reading and general development of writing skills. Prerequisite: Spanish II</p> | | | |

5141	Spanish IV	Level 1	1 Credit
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This course includes an intensive review of grammar as well as a general introduction to Central and South America, the Hispanic community in the United States, Mexico, and Indian cultures. At this level, students are required to do a research paper as well as a cultural presentation in class. Everyday vocabulary is presented through the use of class. Prerequisite: Spanish III

5142	Spanish IV	Level 2	1 Credit
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This course provides emphasis on conversational skills, vocabulary building, a general review of grammar, reading short stories, class discussions, and cultural enrichment. Students apply their knowledge to oral presentations, skits, tape recordings, a Spanish diary, and short compositions. Prerequisite: Spanish III

5151	Spanish V	Level 1	1 Credit
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This course is designed for advanced students. Class will discuss and analyze short stories, poems, and drama. Oral proficiency is fostered through class discussion, presentations, videotapes, recordings, and interaction with the Spanish-speaking community. Composition assignments strengthen writing skills. Prerequisite: Spanish IV

5152	Spanish V	Level 2	1 Credit
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This course enables the student to review general grammar and further develop both oral and written proficiency. In addition to a novel, students will read and discuss short stories and newspaper articles, do interviews, and read about the contemporary Spanish-speaking world. Discussions, presentations, recordings, and composition assignments strengthen skills. Prerequisite: Spanish IV

5167	Advanced Placement Spanish	Level 7 (AP)	1 Credit
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This course is designed to cover the equivalent of a third-year college course in advanced composition and conversation. It stresses speaking skills, composition, the interpretation of literary and contemporary themes, as well as contemporary and classical literature. Audio and visual materials will be used to prepare students for the Advanced Placement Exam in Spanish Language, administered by the College Board. Prerequisite: Spanish IV Level 1.

All students are required to take the College Board A.P. Exam at the completion of the course. Students are responsible for paying the standard test fee. Students who do not take the exam will not be granted credit for the course.

5211	German I	Level 1	1 Credit
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5212	German I	Level 2	1 Credit
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This course is designed to give the student a comfortable command of the language through use of extensive vocabulary, basic conversational patterns, grammatical structures, listening comprehension, and some writing. For students who display interest and adequate ability, there is opportunity to participate in the exchange. Subject to approval, students can take the course on a Level 1 basis. Level 1 work will consist of individual work in an area of interest to the student.

5221	German II	Level 1	1 Credit
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5222	German II	Level 2	1 Credit
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This course picks up on the oral and written skills given in the first year. A basic text is supplemented by extra informative material to give the student a more rounded appreciation of the language and country. Students are encouraged to participate in the exchange trip to intensify the experience of the language. Subject to approval, students can take the course on a Level 1 basis. Level 1 work will consist of individual work on an area of interest to the student. Prerequisite: German I

5231	German III	Level 1	1 Credit
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5232	German III	Level 2	1 Credit
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In this course students expand their verbal and communicative skills to handle a greater number of situations by using a basic text as well as supplementary material. Readers are integrated into the text, and students are encouraged to bring their own material, slides, for example, to class to broaden the class's experience of the language and culture. Students are strongly encouraged to participate in the exchange. Subject to approval, students can take the course on a Level 1 basis. Level 1 work will consist of individual work in an area of special interest or knowledge to the student. Prerequisite: German II

5321	Latin II	Level 1	1 Credit
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Latin II begins with a review of basic grammar and vocabulary. Extensive readings from Latin authors are given to present students with a Latin of increasing complexity and sophistication, as well as supplementary readings in Latin to foster an understanding of Roman history, culture, and mythology. Prerequisite: Successful completion of Latin I or grade 8 Latin.

5331	Latin III	Level 1	1 Credit
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Latin III begins with the reading in Latin and translation into English of selections from Sallust and Cicero as they relate to the Catilinarian conspiracy. It continues with the Pro Archia and its consideration of a liberal arts education. Poetry and mythology are studied through selections from the Metamorphoses of the Latin poet Ovid. Grammar, vocabulary, derivative study, and Roman culture are systematically introduced into the study of the readings. Prerequisite: Successful completion of Latin II.

Mathematics

Grade 9	Grade 10	Grade 11	Grade 12
Geometry, L7	Algebra & Trig. L7	Intro Analysis, L7	AP Calculus L7
Geometry, L1/L2	Algebra II L1/L2	PreCalc L1/L2 (gr.11)	Calculus L1
Algebra I L2/L3	Geometry L3	Algebra II, L3	Precalc L1/L2
Applications Math L3	Appl. of Alg. & Geom. L3	Advanced Math Topics L2 (gr.11,12) Advanced Math Topics L3 (gr.11,12)	Advanced Math Topics L2 (gr.11,12) Advanced Math Topics L3 (gr.11,12)
Electives beyond main curriculum:			
1.College Review Math, L0 (1/2 year) Senior elective			
2.Statistics, L1&L2 (1/2 year) Senior elective			
3.Computers & Programming (BASIC) I, L1&L2 (1/2 year) Soph./Jr./Sr. elective			
4.Computers & Programming (BASIC) II, L1&L2 (1/2 year) Soph./Jr./Sr. elective			

2902 Algebra I Level 2 1 Credit

2903 Algebra I Level 3 1 Credit

This is a core course in elementary algebra. The course includes topics of fundamental polynomial operations, equations and inequalities, special products and factoring, rational expressions, fractional equations, quadratic equations, radical expression and radical equations. Students receiving a D grade or lower in grade 8 math should select this course.

2103 Applications Math (Grade 9) Level 3 1 Credit

Applications Math is an interactive approach at combining math skills with "real" world applications. The course integrates topics such as Surveys and Data Analysis, Spacial Visualizations, Simple Probability, Linear Functions and at all times reinforcing the basic skills. It is intended for the student to follow up with Applications of Algebra & Geometry L3 their Sophomore year. Students who have shown that they are not ready at this time for the conceptual nature of Algebra should select this course.

2113 Applications of Algebra & Geometry Level 3 1 Credit

This course is intended for Sophomores who need some mathematical background in basic skills and arithmetic, Algebra and Geometry relating to daily living while at the same time integrating these concepts with problem solving and computer software.

2121 Geometry (Grade 9) Level 1 1 Credit

2122 Geometry (Grade 9) Level 2 1 Credit

This course offers a wider scope of topics with emphasis on reading, problem solving and reality orientation with a four dimensional approach to understanding Skills, Properties, Applications, and Visual Representations. Students with a grade of A- or better should take Level 1, and students with a C- or better should take Level 2.

2203	Geometry (Grade 10)	Level 3	1 Credit
This course includes topics of congruence, similarity, parallel lines, circles, area and volume. Prerequisite: Algebra L2/L3.			
2201	Algebra II	Level 1	1 Credit
2202	Algebra II	Level 2	1 Credit
This course is designed for those students preparing for four year colleges. The course includes topics on rational and irrational numbers, equations and inequalities, systems of linear equations, quadratic equations, functions, variation, exponents and logarithms, graphics calculator and/or software use. Elements of coordinate geometry as well as equations of second degree and respective graphs. Prerequisite: For Level 1 - a grade of B or better in both Geometry Level 1 and Algebra Level 1. For Level 2 - a grade of C or better in both Algebra Level 2 and Geometry Level 2.			
2303	Algebra II	Level 3	1 Credit
This course is designed for students who do not intend to pursue a study in mathematics. The course covers the essentials of Algebra II with emphasis on the Quadratic Equation, Matrices, and Applications. It is hoped that these students will select Advanced Math. Prerequisite: Geometry L3			
2401	Statistics & Probability	Level 1	.5 Credit
2402	Statistics & Probability	Level 2	.5 Credit
This is a half-year course offered in the Fall and /or Spring Semesters. It provides students with a background in the vocabulary of Statistics as well as the understanding of the concepts of Random Variables of Discrete/Continuous Probability Distributions, Normal Curve, Correlation Coefficient, Regression Methods, Analysis of Variance and Hypothesis Testing. The difference in the levels is the outside readings and/or assigned projects. Prerequisite: Algebra II.			
2301	Pre-Calculus (Grade 11)	Level 1	1 Credit
2302	Pre-Calculus (Grade 11)	Level 2	1 Credit
This course is intended for students who have had Algebra 2 their sophomore year and plan to follow the continuous math program. The course description and prerequisites follow precisely courses 2501 and 2502.			

2501	Pre-Calculus (Grade 12)	Level 1	1 Credit
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This course is intended for the student who intends to pursue courses of study in mathematics, computers, science, or engineering. The course will contain a full treatment of Trigonometry with application to vectors, polar coordinates, complex numbers, as well as theories of higher degree equations, analytic geometry and an introduction to Calculus. Prerequisite: A grade of "B" or better in Algebra II Level 1.

2502	Pre-Calculus (Grade 12)	Level 2	1 Credit
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The course will contain a full treatment of Trigonometry as well as algebraic concepts including such topics as solving higher degree equations, analytic geometry and functions. Students should have maintained minimal grades of "B-" in Algebra I, Geometry, and Algebra II at Level 2 as a prerequisite for this course.

2602	Advanced Math Topics (Grade 11 & 12)	Level 2	1 Credit
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This course is intended for students who need to strengthen their background in Math, but who will need the basics of Math in his or her program. Included in this course is a full complement of Trigonometry, Matrix Algebra, Linear Programming, some Probability, and Statistics as well as other functions with real world applications. Students will use calculators and, where practical, computer software.

2603	Advanced Math Topics (Grade 11 & 12)	Level 3	1 Credit
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This Topics class attempts to integrate the four mathematical concepts of Problem Solving, Communication, Applications and Technology. Topics covered will include Ratio-Proportion-Percents, Coordinate Geometry, Areas and Volumes, Right Triangle Trig, Graphs and Statistics and the concepts of Financing and Credit. Calculators and Computer Software will be utilized where appropriate.

2217	Geometry (Accelerated)	Level 7	1 Credit
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This is the Accelerated Geometry course intended for students who have taken Accelerated Algebra with a grade of A- or better. It uses the same format as the Level 1 except for more emphasis on proof, volumes of solids and some Trig. This course will be covered at a fast pace with rigor and intensity.

2707	Algebra II and Trigonometry	Level 7	1 Credit
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This is an accelerated mathematics course for sophomores. It is a rigorous treatment of intermediate Algebra. In addition to the usual topics of intermediate Algebra, the course includes extensive study in algebraic proof, quadratic systems, logarithms, conic sections, the exponential function and a full treatment of Trigonometry. Prerequisite: A grade of "B" or better in the accelerated math program. Also students receiving "A" in their current L1 math class interested in the accelerated program should make an appointment with the Math Department Chairperson.

2717	Introductory Analysis	Level 7	1 Credit
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This is an accelerated Math course for juniors. It includes a rigorous treatment of such topics as logic, induction, vectors, polynomial functions, field and group concepts, logs, Trigonometry, matrices and limits. All topics are discussed from a functional approach. The course also includes an introduction to Calculus. Prerequisite: A grade of "B" or better in the accelerated math program or by permission of the head of the math department.

2721	Calculus	Level 1	1 Credit
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This is the senior course for accelerated mathematics students. The course includes an in-depth review of Trigonometry and analytic Geometry before proceeding into the Calculus topics of the first and second derivatives, methods of differentiation, applications of the derivative, problems, the definite and indefinite integral, and techniques of integration. An extensive treatment of the epsilon approach to limits and continuity is included. Prerequisite: A grade of "C" or better in introductory analysis or by permission of the head of the Math Dept. Students can opt to take the AP Advanced Placement Exam in May.

2737	Advanced Placement Calculus	Level 7	1 Credit
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This is the accelerated Calculus course which aligns itself to the College Entrance Examination Boards recommended syllabus for students desiring Advanced Placement college credit. It begins with a short review of the analytic Geometry necessary and follows with a comprehensive treatment of Calculus. It extends course 2721 by considering the theory and application of such topics as transcendental functions, parametric equations, infinite series, hyperbolic functions. Prerequisite: grade of "B+" or better in introductory analysis or its equivalent.

All students are required to take the College Board A.P. Exam at the completion of the course. Students are responsible for paying the standard test fee. Students who do not take the exam will not be granted credit for the course.

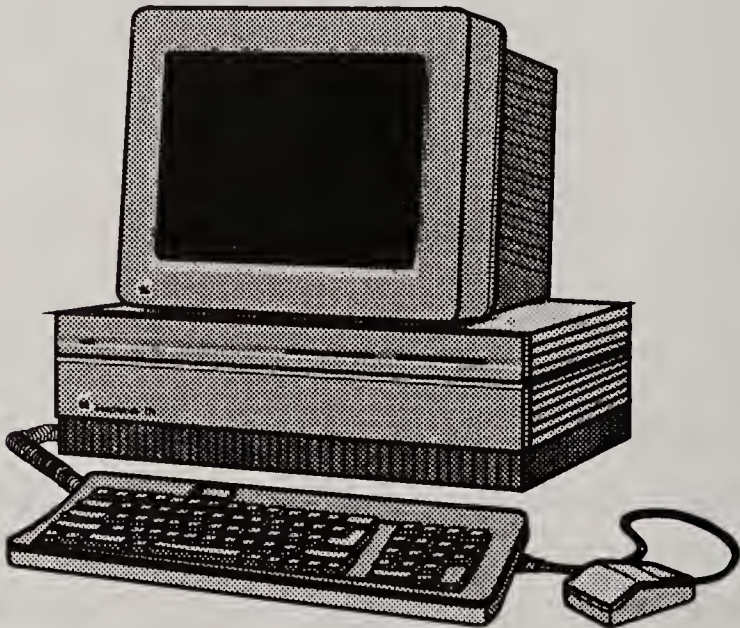
2811	Computers and Programming I	Level 1	.5 Credit
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2812	Computers and Programming I	Level 2	.5 Credit
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This is Programming in BASIC. This course is recommended for any student who has little experience with a computer language to build up their background prior to entering college. It is also designed for any other student who plans to major or minor in Computer Science as a platform to build from. The fundamentals include History, vocabulary, Print, numeric and string variables, looping, Special Functions, Print-Using and Graphics as well as an interspersed of DOS. Prerequisite: Algebra I and Geometry at minimum Level 2 and Keyboarding/Typing Skills. Level 2 will emphasize the quality of programming.

2821	Computers and Programming II	Level 1	.5 Credit
2822	Computers and Programming II	Level 2	.5 Credit

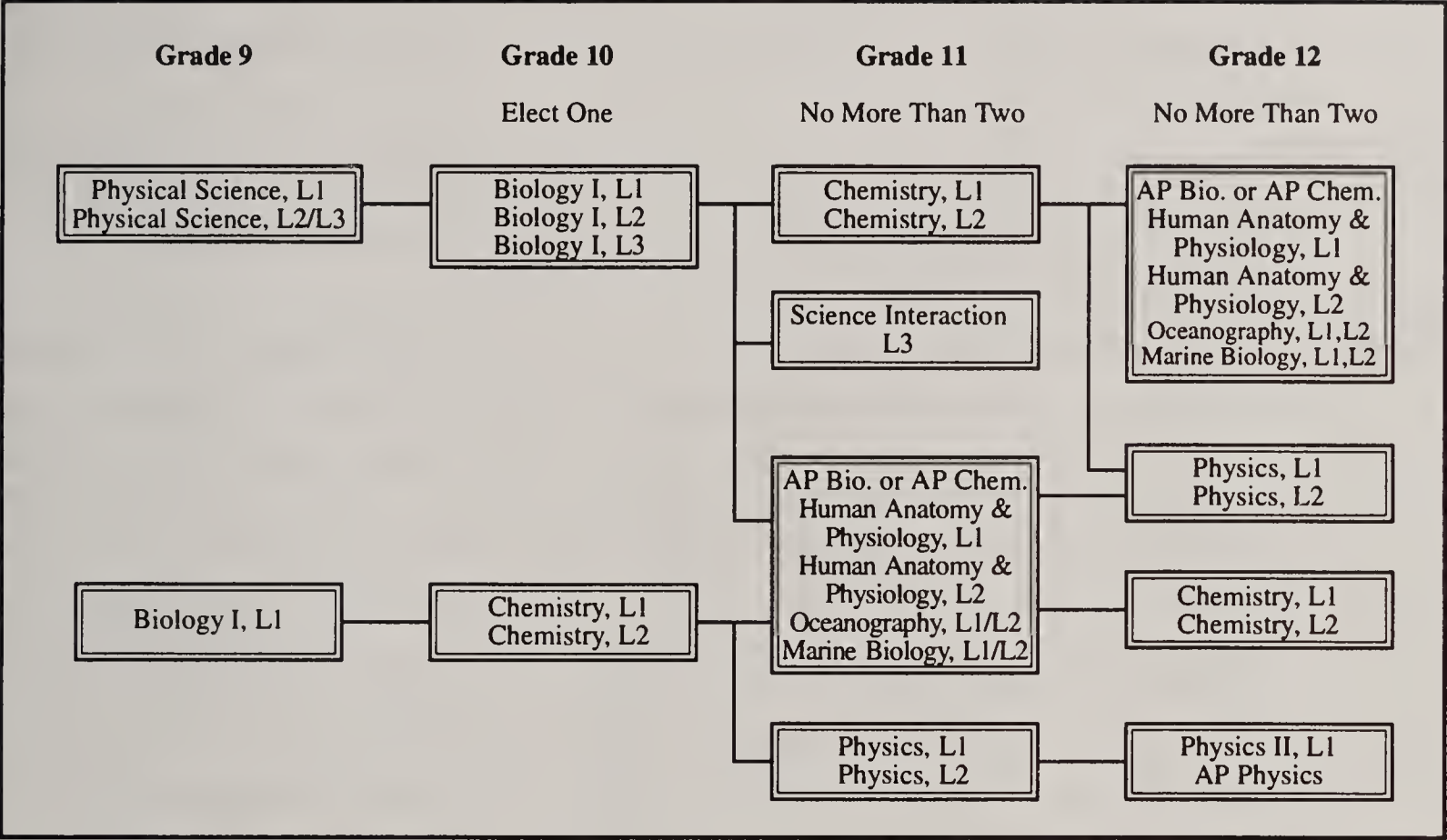
This course will emphasize flowcharting, advanced programming, and advanced computer techniques. These facets of the course will be integrated into topics relative to Mathematics, Science, and Finance, Level 1 students must acquire permission to work for Level 1 credit. They will be required to do more programs and independent projects.



2830	College Review Math	Unleveled	.5 Credit
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The first half of this course reviews the concepts of arithmetic, Geometry and Algebra. As the review is conducted, emphasis is placed on the logic of solving problems so that the basic overall ability of the student to solve problems and to test well is improved. The second half of the course concentrates on more difficult problems in Algebra and Geometry as well as introducing concepts from Trigonometry. Prerequisite: Pass Algebra I, Geometry, and Algebra II at any level.

Science



3901 Physical Science **Level 1** **1 Credit**

This course develops an understanding of the fundamental principles of physical science, the major units being pre-physics, pre-chemistry and ecology. Throughout the course application of science to the students' lives and society is illustrated through lectures, weekly laboratory activities, student reports and projects. It is hoped that these students will go on to take Biology Level 1. Prerequisites: Grade of "B" or better in 8th Grade Science, capable of independent study and present science teacher's recommendation.

3902 Physical Science **Level 2** **1 Credit**

3903 Physical Science **Level 3** **1 Credit**

The same fundamental principles of physical science as Level 1 will be covered. The emphasis will be on the qualitative understanding of these major units of physical science through numerous hands-on activities and teacher demonstrations.

3001 Biology I **Level 1** **1 Credit**

This course develops an understanding of the unity and diversity of living organisms. Major emphasis is placed on the process of inquiry, the concept of evolution, and homeostasis as a basic biological phenomenon. In addition to the text, readings from current Science periodicals will be assigned. Prerequisites: Grade of A- or better in present Science course, ability to read above grade level and manage advanced material, capable of independent study and present Science teacher's recommendation.

3002	Biology I	Level 2	1 Credit
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This course takes a systems approach to understanding the fundamental similarities among all living organisms. In addition, human biology and the role of humans in the biosphere is emphasized. Weekly laboratory investigation will be performed by students.

3003	Biology I	Level 3	1 Credit
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This course is an introduction to the world of living organisms and the interrelationships which exists between organisms and man.

3017	Advanced Placement Biology	Level 7 (AP)	1 Credit
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The Advanced Placement Biology Course is designed to cover the equivalent of a first year college course for Biology majors. Biological principals are studied in depth within evolutionary and biochemical themes. Twelve open-ended AP laboratory experiments are performed as well as other supplementary lab work. In order to cover the scope of this course, additional work is done during the summer, on weekends, and during vacations. The AP exam is given the second week of May. Prerequisites: (entry guidelines) Combined SAT score of 1200, Class rank in top 10-15%, final grade of B+ or better in L1 Biology and Chemistry or "A" in L2 Biology and Chemistry, Biology Achievement Test score of 550 or better, exceptional reading and writing skills, sincere interest in subject, instructor's approval.

All students are required to take the College Board A.P. Exam at the completion of the course. Students are responsible for paying the standard test fee. Students who do not take the exam will not be granted credit for the course.

3033	Science Interaction	Level 3	1 Credit
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The course stresses the interconnectedness of the sciences (chemistry, physics, biology, and Earth science). A variety of interesting articles and demonstrations will be included to give a wider perspective on the influences and relevance of science in the student's life. Prerequisite: 9th grade science.

3101	Chemistry	Level 1	1 Credit
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3102	Chemistry	Level 2	1 Credit
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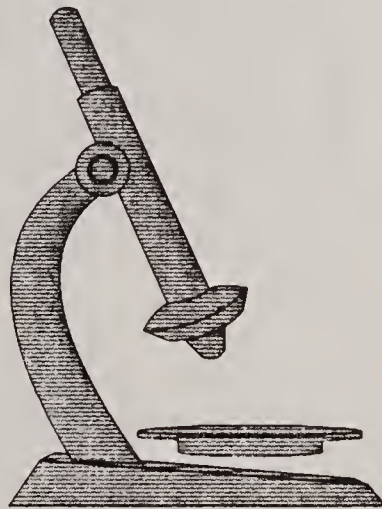
Level 1 surveys the primary concepts and principles of chemistry. This course will put emphasis on mathematical and physical analysis of chemistry systems. In addition, this course will cover in-depth such topics as Reaction Rates, Equilibrium, Oxidation-Reduction Reactions and Electro-Chemistry. Tests will include multiple-step problems which will require a strong mathematics background. Laboratory experiments will be performed by students.

Level 2 covers the primary concepts and principles of chemistry. This course will balance these chemistry concepts with the mathematical concepts of chemistry. Laboratory experiments will be performed by students. Recommendation: a C or higher grade in Algebra I.

3201	Human Anatomy & Physiology	Level 1	1 Credit
3202	Human Anatomy & Physiology	Level 2	1 Credit

This course surveys the structure and function of the major systems of the human body including skeletal, muscular, nervous, endocrine, immune, cardiovascular, respiratory, digestive, and excretory. Laboratory work and dissections, plus scientific literature are an integral part of this course. Level 1 emphasizes problem solving and application skills, long-term research projects, and in-depth experiments. Prerequisite: A "B" or better in Biology Level 1.

Level 2 emphasizes writing processes, research techniques, communication skills, laboratory and dissecting skills. Prerequisite: Biology I. Recommendation: a C or higher grade in Biology I.



3331	Oceanography	Level 1	.5 Credit
3332	Oceanography	Level 2	.5 Credit

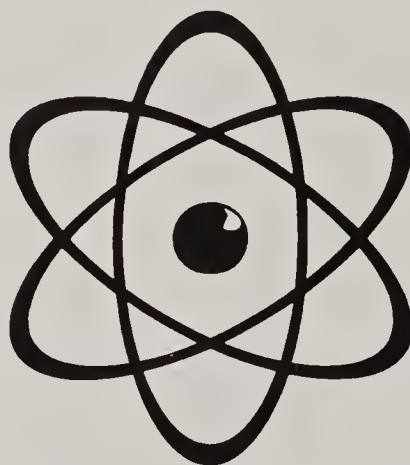
This is an introductory course in physical oceanography and will cover topics relating to the historical development of oceanography, the geography and geology of the oceans, waves, tides, currents, basic physics and chemistry of the oceans, chart reading and navigation. Level 1 will emphasize problem solving, application skills, and long-term research projects.

3341	Marine Biology	Level 1	.5 Credit
3342	Marine Biology	Level 2	.5 Credit

This course will survey the general marine biology and ecology of the New England coast and adjacent waters. Some of the topics covered are plankton, algae, invertebrates, vertebrates, ecology, fisheries and mariculture. Level 1 will emphasize problem solving, application skills, and long-term research projects. Prerequisites: Biology I and Oceanography or permission of the instructor.

3401	Physics	Level 1	1 Credit
3402	Physics	Level 2	1 Credit

A rigorous physics course with concentration in optics, wave theory, mechanics, electricity, magnetism, and atomic theory. Recommended: (Level 2) Concurrent enrollment in Algebra II or Pre-Calculus. (Level 1) Concurrent enrollment in Introductory Analysis or Calculus.



3411	Physics II	Level 1	1 Credit
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This course is designed for students intending to major in the natural sciences or engineering or would just enjoy a second year of physics. It is modeled after courses commonly offered in American Universities.

3417	AP Physics	Level 7	1 Credit
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This course is representative of courses commonly offered in American Universities: Mechanics (1 semester) plus Electricity & Magnetism (1 semester). Students will be prepared to take these two Advanced Placement Physics C Tests. Recommend concurrent course in Calculus.

All students are required to take the College Board A.P. Exam at the completion of the course. Students are responsible for paying the standard test fee. Students who do not take the exam will not be granted credit for the course.

3517	AP Chemistry	Level 7	1 Credit
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The Advanced Placement Chemistry course is designed to be the equivalent of the general Chemistry course usually taken during the first year of college. Topics such as structure of matter, kinetic theory of gases, chemical equilibria and chemical kinetics will be covered in depth. Recommended laboratory experiments will be performed. Students will be prepared to take the Advanced Placement Chemistry Exam.

All students are required to take the College Board A.P. Exam at the completion of the course. Students are responsible for paying the standard test fee. Students who do not take the exam will not be granted credit for the course.

Practical Arts

Applied Technology

Recommended Curriculum Sequence

Note: This chart indicates the recommended sequence of course offerings in the Applied Technology Department. The courses, however, are available to all students at all grade levels.

All Students	Business Management	Career Technology
Technological Tools (Required) (Semester) (9th Grade)	Acct. I-Full Year Adv. Acct.-Full Year	Technical Office Systems (Semester)
	Intro to Marketing - Full Year Adv. Marketing - Full Year	Business Essentials (Semester)
Intro. to Business Essentials (Semester)	Personal Finance & Banking (Semester)	Personal Law (Semester)
Advanced Word Processing	Business Law (Semester)	Business Math (Semester)
Computers as a Tool (Semester)		Introduction to T.V. Production
Economics (Semester)		
Desktop Publishing		
Computerized Yearbook		
Childcare		
Early Childhood Studies		
Food and Nutrition		
Food Management		

.25 Credit

Students will learn to identify the manipulative parts of the computer type using correct fingering and good technique. Students will be introduced how to use application tools such as word processing, spreadsheets, data bases, telecommunications and CD ROM technologies. The software program Microsoft Works 4.0 will be used with new computer facilities.

The focus of this course is to make students competent in using application software in order to enhance their productivity in all high school courses. Students will have the ability and knowledge to use these technological tools to complete assignments for all high school classes. Time permitting, students may use the facilities in the media center, television studio and the applied technology lab.

.5 Credit

This is a “hands-on” type of course where all participating students learn how to use a sophisticated software application program, PageMaker 5.0, to create various publications. These may include newsletters, brochures, pamphlets or classroom assignments enhanced with desktop graphics.

The curriculum in this course will be coordinated with the material developed for the high school publication “The Rock”. Students in this class will be able to assist with the development of the newspaper.

.5 Credit

Students enrolled in this “hands-on” course will learn how to use advanced hardware and software technologies to develop the Andover High School yearbook. Students in this course will use page layout software to create, edit and layout the yearbook for the 1995/1996 school year. Class activities will be coordinated with the advisor of the yearbook.

Students will also use PageMaker 5.0 software to create other classroom assignments. These may include newsletters, brochures, pamphlets and other instructional materials that may be distributed throughout the high school. This course will help students to use these technologies in all other classes.

.5 Credit

The use of a sophisticated word processing program will allow for the addition of advanced educational assignments and will allow students to prepare for advanced study or business employment.

The course is structured as a combination of lecture and lab assignments. Students will be expected to learn the features of a new program and complete assignments that are practical and related to their other high school courses. Effort will be made to coordinate assignments with other subject area teachers. Students will develop skills necessary for both personal use and employment in the modern office.

.5 Credit

Students will be given advanced instruction on the use of a word processor, spreadsheet and data base applications using the software program Microsoft Works 4.0. Students will also be given instruction on such technical tools as CD ROM, laserdisks, telecommunications including the Dialog and Internet services, and the use of multimedia software.

The student focus will be on the capabilities of the computer as a tool for use on assignments in a variety of academic disciplines. Skills necessary for both personal use and employment in the modern office will also be developed.

8212	Business Law	Level 2	.5 Credit
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Business Law provides a realistic presentation of legal principles and their application to everyday business situations. The aims of the course are to develop in the student an understanding of the operation of our legal systems - law and the courts in relation to the individual, to acquaint students with the knowledge that all business activities are governed and defined by law, to provide practice in the preparation of legal forms.

8221	Personal Law	Level 1	.5 Credit
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8222	Personal Law	Level 2	.5 Credit
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This course will cover aspects of the law as it affects every citizen. It will cover topics such as Family Law, which includes the Meaning of Marriage, the Right to Have and Keep Children, Making Decisions, and Family Breakup. The second topic - Criminal Law: The Branch of Law Which Protects the Public. The third topic - Student Rights and Responsibilities will cover topics such as compulsory education - what it can be and for whom, free expression, discipline, etc. Various legal professionals from the local area will also be invited to speak on the topics mentioned above.

8231	Economics	Level 1	.5 Credit
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8232	Economics	Level 2	.5 Credit
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A course designed to provide familiarity with the intricate but practical concepts used in business today. The student will become acquainted with the theories and techniques of modern day business management. Topics covered are business and its environment, business ownership, finance, communications, human resources, management functions, and the Stock Market.

8241	Introduction to Marketing	Level 1	1 Credit
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8242	Introduction to Marketing	Level 2	1 Credit
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Introduction to Marketing is a program of instruction in merchandising,, management, and marketing intended to give the student an investigation of career opportunities as well as prepare them for a business administration/business management curriculum in college. Some of the areas covered are: retailing, fashion merchandising, advertising, buying and selling, and the marketing and distribution of goods and services. Many students are involved with the total business operation of the student store. Students also have the opportunity to belong to the marketing club through the DECA Club organization.

8251	Advanced Marketing & Distribution	Level 1	1 Credit
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8252	Advanced Marketing & Distribution	Level 2	1 Credit
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This course is open to students who have successfully completed Introduction to Marketing. In the first half, Advanced Marketing will cover business ownerships, finances, communications, and an in-depth look at the different phases of marketing. Time will be spent on the Apple II Computers which includes the software for eight marketing categories listed as follows: Apparel and Accessories, Advertising and Display Services, Finance and Credit, Food Marketing, General Merchandising, Restaurant Marketing, Service Station Retailing, and General Marketing and Hospitality and Tourism. All students will compete in the marketing (DECA) competitions.

8270	Introduction to Business Essentials	Unleveled	.5 Credit
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Provide students with a general background of various disciplines of a successful business operation. Topics include marketing, law, accounting and financial management. Computers would be used in simulations. Upon completion, each student will be able to better understand successful business operations and have a practical knowledge of marketing, law, banking, accounting and business management.

8239	Personal Finance and Banking	Unleveled	.5 Credit
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Provide students with a better understanding of various financial institutions and the services they offer. Instruction on how to plan a budget, consumer credit, savings and checking accounts, investments and managing money properly. The course will look at various publications in an effort to educate the student on alternates to a simple savings account: The Wall Street Journal, Money Magazine, Forbes, Fortune, and an investment newsletter. A stock market simulation will be introduced.

2053	Business Math	Level 3	1 Credit
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A one year course for students who have had difficulty in the area of Math and Algebra. The course is designed to make students competent consumers in the business marketplace. The basic fundamentals of addition, subtraction, multiplication, division, decimal placement, fractions and percentages are stressed in everyday marketplace situations.

Accounting

Accounting is concerned with the planning, summarizing, and analysis of financial records. This course provides those students who are considering careers in retailing, merchandising, management, marketing, finance, accounting, economics, law, computer science, and engineering with the background necessary to understand how today's complex business structure operates. Accounting is essential for the person planning his or her own personal financial matters. It is recommended that all students elect Accounting I during their sophomore or junior year. This will provide space in their course of studies for continuation into Advanced Accounting.

Accounting will provide instruction in recording business transactions in the appropriate journals, posting to all the ledgers, the preparation of trial balance, profit and loss statement, and balance sheets. Accounting I deals with businesses which are organized as proprietorships that sell either a service or merchandise.

8301	Accounting I	Level 1	1 Credit
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8302	Accounting I	Level 2	1 Credit
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Accounting I provides an understanding of fundamental concepts and principles necessary to continue with Advanced Accounting, to pursue accounting as a career, and to major in Business Management or Accounting in college. Accounting I will also provide knowledge and techniques that can be applied to personal business interests.

8311	Adv. Accounting	Level 1	1 Credit
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8312	Adv. Accounting	Level 2	1 Credit
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This course continues with accounting principles and concepts and covers advanced elements regarding partnership and corporate accounting. Considerable amount of time will be devoted to completing computerized simulated projects and assignments. Prerequisite: Accounting I and/or recommendation of Advanced Accounting teacher.

8522	Technological Office Systems	Level 2	.5 Credit
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Office & Business Skills for the '90s provides practical up-to-date information where students will study word processing, telephone procedures, record keeping, basic communications, math skills, decision making and problem solving. The emphasis will be on the practical applications and will include information on the effective use of computers and software programs, new telephone equipment and other new office technology. Students will explore career opportunities and also focus on attitudes, human relationships, emphasizing that office and business skills depend upon "people skills" as much as functional skills.

Practical Arts Electives

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|-------------|--------------------------------------|------------------|------------------|
| 8670 | World of Drafting - Full Year | Unleveled | 1 Credit |
| 8680 | World of Drafting - Half Year | Unleveled | .5 Credit |
- Basic mechanical drawing using T Squares and triangles, relationship of views, freehand, isometric sketching, isometric drawings, orthographic projection, dimensioning geometric constructions, developments, sectional views and use of compasses and scales. The course is designed for those students who have a serious interest in engineering in their future.
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|-------------|--------------------------------|------------------|------------------|
| 8700 | Early Childhood Studies | Unleveled | .5 Credit |
|-------------|--------------------------------|------------------|------------------|
- “Early Childhood Studies” will help students to better understand children and the influences and relationships within the family, neighborhood, school and community. Independent observations at nursery schools will be conducted as part of a lab component in the course.
- The three prenatal stages of pregnancy will be studied as well as child birth. Students will have guest speakers and there will be a field trip to Lawrence General to observe an obstetrics unit.
- Lab experiences at the Early Childhood Center will enhance the study of the emotional, physical, social and intellectual development of the pre-school and kindergarten student.
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|-------------|-------------------|------------------|-----------------|
| 8710 | Child Care | Unleveled | 1 Credit |
|-------------|-------------------|------------------|-----------------|
- “Child Care and Development Lab” offers the means to apply knowledge in the area of early childhood development. The class will meet for a double period, which will permit students to study the theories of child care and development, in addition to providing an opportunity to assist at the Shawsheen Early Childhood Center on a regular basis.
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|-------------|---------------------------|------------------|------------------|
| 8800 | Food and Nutrition | Unleveled | .5 Credit |
|-------------|---------------------------|------------------|------------------|
- “Food and Nutrition” will provide basic food preparation techniques in addition to an understanding of human nutritional needs. Students will plan and prepare basic meals, while integrating knowledge acquired on nutrition, health, and wellness, typically covered in the health curriculum.
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|-------------|------------------------|------------------|-----------------|
| 8810 | Food Management | Unleveled | 1 Credit |
|-------------|------------------------|------------------|-----------------|
- “Food Management” class will involve all aspects of planning, purchasing and preparation of foods. Students will prepare a variety of luncheons which will be served to faculty members or other adults for a reasonable fee. Contemporary cooking styles will be employed and consumer applications, as well as nutrition, will be an integral part of the course. The class will meet for a double period.
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|-------------|--------------------------------|------------------|-----------------|
| 8900 | Intro. to TV Production | Unleveled | 1 Credit |
|-------------|--------------------------------|------------------|-----------------|
- Hands on course designed to demonstrate the interdisciplinary nature of television as a medium for communication. Students will learn about principles of communication, techniques of effective audio/visual communication and technical operation of television equipment. Students will be taught to write, produce, direct and edit studio and field productions for use on Heritage Cable Channel 12.

Fine Arts

- All courses in art carry a .5 credit.
- Music courses meet varied frequencies and carry appropriate credit of .5, .75 and 1.0.
- 1 full credit of fine arts - either art, music or drama, is required for graduation.
- Studio I is a prerequisite art course for the class of 1993 and thereafter. (Exception - by permission of instructor).
- Independent studies will be offered to the student who wishes to continue in a specific medium. This is set up by contract with the individual student and instructor based on the A.H.S independent study format.



Music

7000	Chorus	Unleveled	1 Credit
7070	Chorus	Unleveled	.5 Credit
7030	Chorus	Unleveled	.75 Credit

The course involves music for mixed voices with emphasis on performance. A study is made of music of different styles and time periods. Participation in Winter and Spring concerts is required. Quite often other opportunities, such as concert tours, recordings and District and All State performances are given. It should be noted that .50 and .75 credit classes are available only for students with class conflicts.

7090	Madrigal Chorus	Unleveled	.5 Credit
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This is a select group made up of members of the regular chorus. Auditions are held at the beginning of the school year. Rehearsals are held one day a week after school for two hours. In addition to some more advanced choral singing, students are encouraged to choreograph many of the selections for concerts and competitions. Students should not select this course, they will be assigned after auditions.

7010	Concert / Band	Unleveled	1 Credit
7060	Concert / Band (for Freshman only)	Unleveled	.75 Credit

This ensemble will rehearse and perform a wide variety of the contemporary concert band repertoire. Daily in-school rehearsals, occasional after-school sectional practices, and participation in all concerts are required. Students must be scheduled for concert band in order to be eligible to audition for orchestra and/or jazz band. It should be noted that .75 credit classes are available only for Freshman.

- 7020 Music Theater Workshop Unleveled .5 Credit**
In this course the various elements of stagecraft and management will be treated. These will include such items as acting, directing, singing, choreography, set design, costumes, properties, lighting, sound, makeup, and business. Field trips to live performances are taken when available.
- 7040 Theory & Harmony Unleveled 1 Credit**
A serious study of the language of music. This includes music reading, harmonic analysis, improvisation, and performance. It is an opportunity for the serious music students to compose. A system of music writing using the computer is available.
- 7120 Chamber Music for Strings Unleveled 1 Credit**
7130 Chamber Music for Strings Unleveled .5 Credit
7140 Chamber Music for Strings Unleveled .75 Credit
The traditional chamber string orchestra is employed to explore, develop and perform the classical repertoire. Prerequisite: Five (5) years of string training. Students should not select this course, they will be assigned after auditions.
- 7170 Jazz Combo Class Unleveled .5 Credit**
In this course, for advanced wind and rhythm section players chosen by audition only, students will perform a wide repertoire, including standard jazz songs, popular songs, and original compositions. Membership in concert band is a prerequisite for wind and percussion players. Students should not select this course, they will be assigned after auditions.
- 7190 Jazz Band Unleveled .5 Credit**
This course, for advanced Woodwind, Brass, Percussion and Rhythm section musicians (accepted by audition only) will meet once a week after school from 2:15 to 4:00. The group will perform in assemblies, evening concerts and competitions throughout the school year. All Woodwind, Brass and Percussion members must be members of both the Concert Band and the Marching Band to be a participant in this ensemble. Pianists and Guitarists are also highly encouraged to be members of these groups as well. Attendance at all rehearsals and performances will required to receive a passing grade. Students should not select this course, they will be assigned after auditions.
- 7400 Drama & Theatre Unleveled .5 Credit**
This course will cover the rudiments of drama, both comedy and tragedy from several aspects: the playwright, the actor, the director, the technician, and the business manager. Students work together on scenes, improvisations, mimes, and set construction.
- 7050 Music Appreciation Unleveled .5 Credit**
Open to all students. This course is a study of the history of the world's music. Beginning music, as well as advanced music students will study the periods and styles of music, with a concentration on works of some of civilization's greatest composers.
- 7080 Marching Band Unleveled .5 Credit**
This ensemble will rehearse and perform mostly in the fall. Football games, competitions, parades, and rehearsals are required. Students must be scheduled for concert band in order to be a marching band member. Colorguard members do not need to be in the concert band.

Visual Arts

- 7660 Photography Unleveled .5 Credit**
This course is a basic introduction to camera, black and white processing, and the history of photography. Students will expose and develop rolls of film to gain an appreciation of the photographic process and its ability to communicate a visual message. (It is recommended that students taking this course have a working 35mm camera available for their use).
- 7220 Graphic Design/Computer Graphics Unleveled .5 Credit**
Computers have had a phenomenal impact in the field of graphic design. This course will explore new graphic software as well as cover traditional design techniques. Computers do not create good design, people trained in the elements and principles of design do. We will use the Macintosh SE and the Apple II G's to explore MacDraw II, Draw Plus, Paintworks Gold, Aldus Freehand, and Aldus PageMaker. The course is limited to 18.
- 7230 Advanced Drawing Unleveled .5 Credit**
This course is a must for those interested in a career or a college major in the visual arts. The course will provide the student training in advanced drawing techniques and will also allow for individualized exploration into a variety of drawing and mixed media: pen and ink, scratch-board, graphite, pastel, crayon and watercolor.
- 7240 Painting Unleveled .5 Credit**
This is a basic painting course. Students will learn to paint with acrylics as they progress from basic color theory through simple painting exercises to finished paintings working from still-life, collage and imagination.
- 7270 Portfolio Workshop I & II Unleveled .5 Credit**
This course is designed for those advanced juniors and seniors who plan to continue their studies in art and who must prepare portfolios. Working from an assignment list, the student will be expected to set and work toward his own goals in this area. Assistance is also given in college or art school selection and application. **Offered first semester only.**
- 7280 Studio I Unleveled .5 Credit**
The Studio I course is designed to provide a comprehensive visual education necessary for the total development of the high school student. Consists of four areas of study, which are Drawing, Color, 2-D Design and 3-D Design. Each area of study will expose students to a variety of materials. Students develop technical skills, and imagination through work in drawing, painting, graphic design and sculpture.
- 7290 Ceramic Design I Unleveled .5 Credit**
This course is designed to develop skill in basic hand building techniques (pinch coil slab) along with a personal style and use of glaze techniques.

1151	Humanities	Level 1	2 Credits
1152	Humanities	Level 2	2 Credits

Team-taught course (Art/1.0 Credit + English/1.0 Credit)

Humanities is a team taught, interdisciplinary course that traces the development of universal themes prominent in Western culture from their origins in ancient Greek mythology, art, sculpture, and architecture to the literature and arts of the present day. Some of the literary works covered are Homer’s Iliad, and Odyssey, Sophocles’ Oedipus Rex, White’s The Once and Future King, Shakespeare’s Othello, D.H. Lawrence’s Sons and Lovers, and Clarke’s Childhood’s End. Art projects are designed for the non-artist to encourage appreciation for and understanding of the creative process. The free exploration of ideas is emphasized and encouraged through class discussion, creative writing, and exposition. Field trips to local and regional art museums are an integral part of this course.

4171	Odyssey	Level 1	1 Credit Fine Arts & 1 Credit Soc Stud
4172	Odyssey	Level 2	1 Credit Fine Arts & 1 Credit Soc Stud

Odyssey is an interdisciplinary elective course, which examines the integral relationship of literature, philosophy, history and fine art in four world cultures; Spain, South Africa, China and Russia. The course stresses student responsibility and empowerment, with an emphasis on tolerance of multiple points of view and questioning. Skill expectations include: analytical and critical thinking, group interactive strategies, writing as a process, research techniques and communication skills. Art projects are designed for the non-artist to encourage appreciation for and understanding of the creative process. Any student choosing to take Odyssey as a **junior** must, as a senior, take the 11th grade req. (20th Century History or AP Modern European History.) *

* In such cases AP U.S. History may also be chosen as a Senior elective.

Health Education

0040	Rites of Passage	Unleveled	.25 Credit
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Rites of Passage is the 9th grade program of instruction in Health Education. The course content is composed of five units: Substance Abuse, Emotional Health, Human Sexuality, Nutrition and Environmental/Community Health. The curriculum is an extension of the comprehensive Health Education Program spanning Grades K-8. Emphasis is placed on building self-esteem, decision-making and coping skills in addition to processing objective content information. Classes meet the equivalent of every other day for one semester. Successful completion required for graduation for **all** students entering AHS during the ninth grade.

0050	Cycles of Life	Unleveled	.5 Credit
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Cycles of Life is designed to examine major health-related issues young adults have faced or will face in their life-times. The curriculum is composed of four major content areas: Consumer Health Issues; Addictions; Mental and Emotional Health; and Human Sexuality. Emphasis is placed on decision making skills which accompany factual information and student group analysis of health related problem issues. Each unit is complemented by presentations from community resource speakers providing additional information and perspective on the topic area. Classes meet every day for one semester. To be scheduled during the 11th or 12th grade. Successful completion required for graduation. Prerequisite: Successful completion of the 9th grade program Rites of Passage for students who **were** present at AHS in grade 9.

Physical Education

The primary objective of the high school Physical Education curriculum is to have students develop a knowledge, understanding and appreciation of physical wellness throughout life.

The curriculum is organized into instructional units that provide students the opportunity to develop the understanding of physical fitness through exposure and participation in a variety of group and individual activities.

Basic objectives include developing the students' ability to self design and maintain a personal age appropriate fitness program, to develop the students' ability to self evaluate their personal fitness level, and for students to have an understanding of sound fitness concepts and training principles.

All students are required to complete the physical fitness test unless medically excused.

The program for the 1995-96 school year will be administered as a combined grade nine and ten curriculum and a grade eleven and twelve curriculum.

The **grade nine and ten** course will focus on learning the fundamental principles of physical development and training. It will be organized in a fitness for life curriculum instructed through participation in individual, group and team activities. The course is designed as a knowledge based curriculum supported by practical experience in physical activities.

The **tenth grade** curriculum includes a semester experience in the Project Challenge course and a semester of instructional units designed for learning the principles of life-long wellness through group, individual and team activities and instruction in the Fitness for Life unit of study.

Grade eleven and twelve students participate in a program that emphasizes the learning of skills in individual activities that promote the pursuit of life-long fitness and wellness. Included in this program is the continued learning and development of the concepts and principles for establishing a healthy lifestyle. Project Challenge activities will be offered to students on an elective basis.

Project Challenge Objectives: (Developed by Project Adventure, Inc.)

- 1) To increase the participant's sense of personal confidence
- 2) To increase mutual support within a group
- 3) To develop an increased level of agility and physical coordination
- 4) To develop an increased joy in one's physical self and in being with others
- 5) To develop an increased familiarity and identification with the natural world.

0057	Grade 9 & 10	Unleveled	.5 Credit
0059	Grade 11	Unleveled	.5 Credit
0060	Grade 12	Unleveled	.25 Credit

0160 Work Release

To be eligible for this program, students must meet the following requirements:

- 1) A student must have five (5) courses, plus physical education, during each term.
- 2) Students planning to participate in the program must register with Mr. Richardson.
- 3) A student must commit himself for the work release program for not less than one (1) term.

Community Service

0170 Community Service 40 Hrs. .25 Credit

0180 Community Service 75 Hrs. .5 Credit

For the student who wishes to earn credit while performing a service to the community, ACSES (Andover Community Service Education System) is a chance to "give back" for our many blessings. Students may design their own program with the consultation of the Community Service Director or they may serve in one (or more) of the following activities:

- 1.) Volunteer at the hospital
- 2.) Tutor reading with a primary student whose language at home is other than English
- 3.) Serve the hungry at a Lawrence soup kitchen
- 4.) Act for 1 year as a Big Brother or Big Sister (you must drive)
- 5.) Help handicapped in a therapeutic swim program
- 6.) Be a friendly visitor to an Andover golden age friend
- 7.) Assist in a therapeutic horse riding program
- 8.) Serve as a teacher aide in afternoon day care

Community Service is generally performed after school. Students are to enroll in at least 5.5 credits **Plus** Community Service.

Merrimack College Program

Andover High School Juniors and Seniors who have shown themselves to be capable of succeeding at college level work are eligible to take courses at Merrimack College on a tuition-free basis. Sign-up for the fall semester takes place during the first week of September. Students interested in registering for Fall Semester classes should obtain an application from the principal's office and a course catalogue and registration materials from Merrimack College during August.

Dual Enrollment Program

The Dual Enrollment Program was authorized in the Education Reform Act of 1993. Andover High School Students can earn both high school and college credit, on a no cost basis, at Commonwealth of Massachusetts Universities and Colleges. Students must be juniors or seniors, have a GPA of 3.0 or better and be recommended by a teacher, guidance counselor or principal.



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